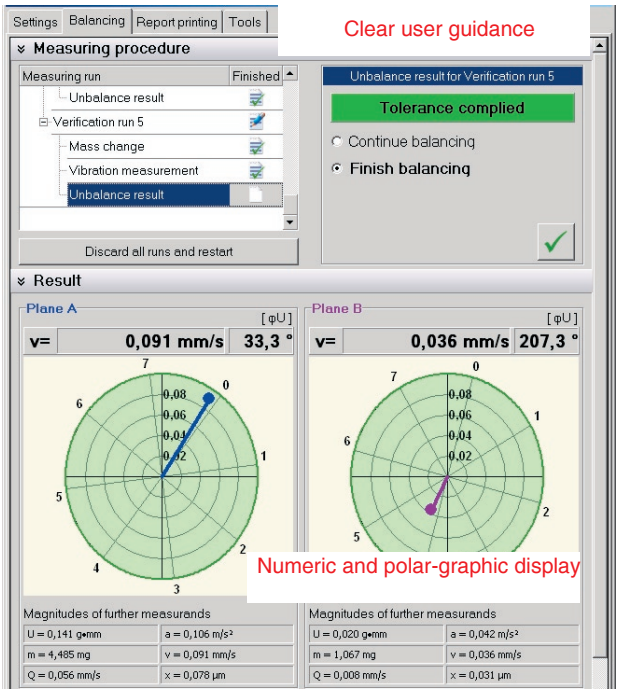
PC Based Balancing System

Vibro Metra

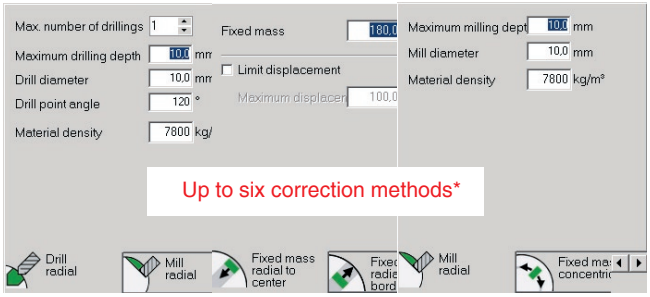
7.1.1
PC Data Acquisition



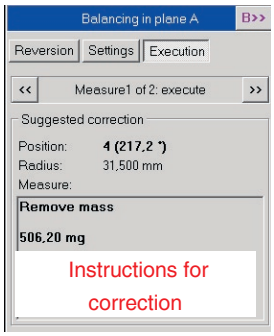
Clear user guidance

Numeric and polar-graphic display

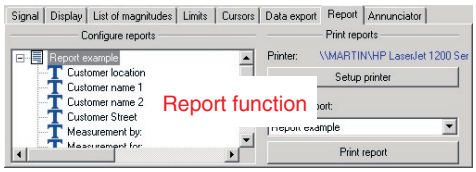
VibroMetra
VM-BAL



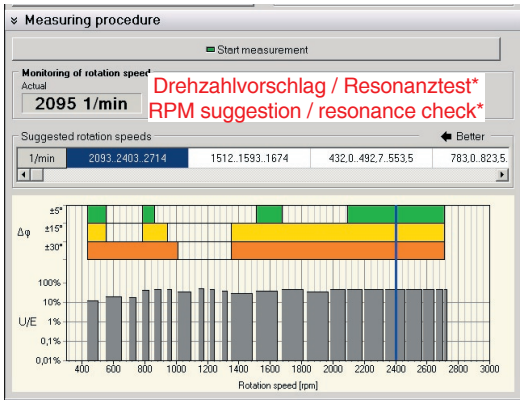
Up to six correction methods*



Instructions for correction



Report function



Drehzahlvorschlag / Resonanztest*
RPM suggestion / resonance check*

* Only in VM-BAL++

Notice: Bilingual software English / German

Application

- On-the-spot balancing of long and disk-shaped rotors under operating conditions with the aim of vibration reduction

Properties

- Versatile instrument at an economic price
- PC based balancing system using the IEPE / USB interface M302, one or two IEPE compatible accelerometers and a photoelectric reflex switch
- One or two plane balancing
- Up to six correction methods depending on software version: correction mass, drilling, milling, rotary rings, set screws, list of predefined correction masses
- Automatic operation by rotary speed detection
- Display of measuring results as polargraphic and numerical values
- Simple installation and operation
- User guidance by clear text instructions
- Extremely compact system
- Balancing system including sensors and complete accessories set available as **VM-BAL Kit** in a practical plastic case

Notice: A useful tool for checking the balancing success is the vibration analyzer VM-FFT.

AGT Absolute Gauge Technologies™

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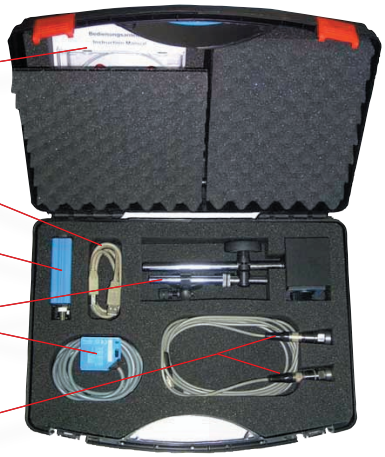
Technical Data

Notice: For two-plane balancing two software license is required.

	VM-BAL++	VM-BAL+	VM-BAL
Balancing methods	One or two plane balancing	One or two plane balancing	One or two plane balancing
Correction methods	Adding / removing mass, radial drilling, milling, rotary rings, sliding blocks, set screws, mass list	Adding mass Removing mass	Adding mass
Pre-defined fixed correction points	3 to 99, angle difference between planes adjustable		none
Balancing aims	Unbalance amount and weight, balance quality to ISO 1940, displacement, velocity and acceleration	Unbalance amount and weight	Unbalance amount and weight
Additonal functions	optimum rotation speed, resonance check, defined unbalance, test mass suggestion, combining masses, saving rotor data and balancing sessions	not available	not available
Rotary speed range	100 .. 30 000 min^{-1} mit M302 und 6.. 600 000 min^{-1} mit M312		
Rotary speed detection	Automatic detection of start, stable operation and stop		
User guidance	Graphical and text instructions for initial, calibration and test run		
Unbalance display	Polargraphic and numerical display		
Correction display	Polar-graphic, numerical display and text instructions		
Polar-graphic	Display of amount and angle of vibration signal, amount and angle of initial unbalance, tolerance circle for good/bad decision, fixed correction points, correction measures		
Required hardware	IEPE / USB interface M302, PC with USB, one or two IEPE compatible accelerometers with mounting magnet for one or two plane balancing, photoelectric reflex switch with tripod or magnetic stand		
Recommended Accelerometer	Isolated industrial accelerometer KS74C.10		

VM-BAL Kit



Specifications subject to change without prior notice.

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